### PATENT COOPERATION TREATY

From the INTERN.	ATION	AL SEARCHIN	G AUTHOR	ITY		PCT Station
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		•				(PCT Rule 43bis.1)
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Applican	it's or ag	ent's file referenc	e		FOR FURTHER	ACTION
			•			See paragraph 2 below
Internati	onal app	olication No.		International filing date	day/month/year)	Priority date (day/month/year)
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Applicat	ıt					,
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,1.	This o	pinion contains ir	ndications rela	ting to the following items	s:	
'	$\square$	Box No. I	Basis of the			·
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		Box No. II	Priority			
		Box No. III	Non-establi	shment of opinion with re	gard to novelty,.inve	ntive step and industrial applicability
		Box No. IV		ty of invention		
		Box No. V	Reasoned stapplicability	tatement under Rule 43bis. y; citations and explanation	.1(a)(i) with regard to ns supporting such s	o novelty, inventive step or industrial tatement
	$\boxtimes$	Box No. VI	Certain doc	uments cited		
		Box No. VII	Certain def	ects in the international ap	plication	
	$\boxtimes$	Box No. VIII	Certain obs	ervations on the internation	nal application	
2.	FURT	THER ACTION				
	If a o Intern than t	demand for international Prelimination one to be the	ry Examining IPEA and the	Authority ("IPEA") excer	ot that this does not a If the International B	will be considered to be a written opinion of the apply where the applicant chooses an Authority other bureau under Rule 66.1 <i>bis</i> (b) that written opinions of
ľ	If this	s opinion is, as pr	ovided above	considered to be a writte	en opinion of the IP before the expirati	EA, the applicant is invited to submit to the IPEA a ion of 3 months from the date of mailing of Form for expires later.
		is AV 220 or belore irther options, see				
		•				
3.	For fi	irther details, see	notes to Form	PCT/ISA/220.		
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International application No.
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Box	No. 1	Basis of this opinion	
1.	With filed,	regard to the language, this of unless otherwise indicated un	pinion has been established on the basis of the international application in the language in which it was der this item.
		This opinion has been establi	shed on the basis of a translation from the original language into the following language
			, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).	
2.	With inver	regard to any nucleotide antion, this opinion has been est	nd/or amino acid sequence disclosed in the international application and necessary to the claimed ablished on the basis of:
	a.	type of material	
		a sequence listing	
		table(s) related to the s	equence listing
	b.	format of material	
		in written format	
		in computer readable for	orm
	c.	time of filing/furnishing	
		<u> </u>	ational application as filed.
			international application in computer readable form.
		<u> </u>	
	•	furnished subsequently	to this Authority for the purposes of search.
3.		furnished, the required state	more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or ments that the information in the subsequent or additional copies is identical to that in the application as he application as filed, as appropriate, were furnished.
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4.	Add	litional comments:	
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Box No. III	Non-establishment of opinion v	with regard to novelty, inventive step and industrial	applicability
The question applicable h	ns whether the claimed invention appeave not been examined in respect of:	ars to be novel to involve an inventive step (to be	non obvious), or to be industrially
	he entire international application		
$\boxtimes$	claims Nos.		
because			
	the said international application, or the serelate to the following subject matter whi	said claims Nos. ich does not require an international preliminary examin	nation (specify):
ا ۔	The inventions of claims (4)(a)(i) and PCT Rule 67.1(iv	19-27 concern treating the human body ly).	by therapy (PCT Article 34
,			
			].
	. •		
	the description, claims or drawings (india are so unclear that no meaningful opinion	cate particular elements below) or said claims Nos n could be formed (specify):	
		•	
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	•		,
.	the claims, or said claims Nos. by the description that no meaningful or	sinian could be formed	are so inadequately supported
	•		
	no international search report has been e		
	the nucleotide and/or amino acid sequent Instructions in that:	nce listing does not comply with the standard provided	for in Annex C of the Administrative
	the written form	has not been furnished	
	,	does not comply with the standard	•
	the computer readable form	has not been furnished	,
		does not comply with the standard	
	the tables related to the nucleotide and technical requirements provided for in 2	Vor amino acid sequence listing, if in computer readal Annex C-bis of the Administrative Instructions.	ole form only, do not comply with the
	See Supplemental Box for further detail	ls.	

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. Statement		* ;	•
Novelty (N)	Claims	1-14, 17, 18, 28-31.	YE
	Claims	15, 16	NO
Inventive step (IS)	Claims		YE
• ,	Claims	1-18, 28-31	NC
Industrial applicability (IA)	Claims	1-18, 28-31	YE
	Claims		NO

2. Citations and explanations:

The opinion in this report is based on the following documents cited in the international search report.

Document 1: WO 96/36624 A1 (Kyowa Hakko Kogyo Co., Ltd.) & EP 771794 A1 WO 01/32127 A1 (SMITHKLINE BEECHAM CORPORATION)

Document 3: WO 01/57036 A1 (PFIZER PRODUCTS, INC.)

Document 4: WO 01/64639 A2 (MERCK FROSST CANADA & CO.)

oClaims 1-14, 17, 18, and 28-31

Document 1 (Example 140) describes the manufacture of the compound represented by Formula (I) of claim 1 in this application, and it states that this compound has PDE IV inhibitory activity and is useful as a medicine. This being the case, when we compare the inventions of the above claims with the invention described in document 1, the former differs from the latter because it is characterized by the fact that it is prepared as a kit and used in combination with a steroid such as budesonide, etc., and COPD, etc., is included as a specific disease.

However, document 2 (Claims and Examples), document 3 (Claims; page 119, line 18 to page 132, line 13) and document 4 (Claims; page 27, line 14 to page 29, last line) state that drugs having PDE IV inhibitory activity are effective in the treatment of asthma and COPD by their combined use with drugs having a steroid scaffold such as budesonide, etc., and these drugs can also be administered separately. This being the case, this examination finds that persons skilled in the art would have no particular difficulty in combining the compound described in document 1 with a steroid drug such as budesonide, etc., to treat asthma and COPD, and that persons skilled in the art can prepare as needed a kit as a separate item for administering both drugs separately.

As a result, based on the descriptions in documents 1-4, the inventions of the above claims lack an inventive step.

#### oClaims 15 and 16

Document 1 (Example 140) describes the manufacture of the compound represented by Formula (I) of claim 1. In this context, when we compare the inventions of claims 15 and 16 with the invention described in document 1, the former appears to differ from the latter because contains a description of the combined use of the compound with a steroid.

(Continued)

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Box No. VIII

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1, 3, 5-8, 10, 12-15, 17, and 28-31

These claims describe a "steroid agent" as an active ingredient of a drug, but this description does not define which specific structures of compounds among those having a steroid scaffold are included therein, and this matter is not obvious to persons skilled in the art. In looking at the specification, the range of this term is restricted to those specific items listed in claim 2, and no particular mention is made of any others.

This being the case, this examination finds that the inventions of the above claims are not described in the specification with sufficient clarity to enable an ordinary person skilled in the art to work the invention, and because the descriptions of these claims are not supported by the specification, the descriptions of these claims and in the specification do not satisfy the requirements stipulated in PCT Articles 5 and 6.

Furthermore, because the specification and Claims of this application do not satisfy the specified requirements, the object of inquiry used when preparing this opinion was limited to a reasonable range based on the description in the specification.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of Box V:

However, this examination finds that the inventions of claims 15 and 16 are both inventions concerning a compound, and because this compound was actually manufactured in document 1, there is no clear difference between the two. In addition, as long as the inventions of these claims concern a pharmaceutical preparation, this examination finds that these inventions lack an inventive step for the same reason as claims 1-14, 17, 18, and 28-31.

As a result, based on the description in document 1, the inventions of claims 15 and 16 lack novelty, and based on the descriptions in documents 1-4, these inventions lack an inventive step.